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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/760,209	01/21/2004	Kia Silverbrook	MPA17US	1357
24011	7590	10/03/2007	EXAMINER	
SILVERBROOK RESEARCH PTY LTD			UHLENHAKA, JASON S	
393 DARLING STREET			ART UNIT	PAPER NUMBER
BALMAIN, 2041			2853	
AUSTRALIA				
MAIL DATE		DELIVERY MODE		
10/03/2007		PAPER		

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No.	Applicant(s)	
	10/760,209	SILVERBROOK ET AL.	

Examiner
Jason Uhlenhake

Art Unit
2853

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 20 July 2007.
- 2a) This action is FINAL. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1-6 is/are pending in the application.
 - 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) Claim(s) _____ is/are allowed.
- 6) Claim(s) 1-6 is/are rejected.
- 7) Claim(s) _____ is/are objected to.
- 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on 21 January 2004 is/are: a) accepted or b) objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) Notice of References Cited (PTO-892)
- 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____
- 4) Interview Summary (PTO-413)
Paper No(s)/Mail Date _____
- 5) Notice of Informal Patent Application
- 6) Other: _____

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claim 1 is rejected under 35 U.S.C. 102(b) as being anticipated by Silverbrook et al (U.S. Pat. 6,439,908)

Silverbrook ('908) discloses:

- ***regarding claim 1***, at least one printhead module (10 of Figure 2) comprising at least two, separate printhead integrated circuits (18 of Figure 4), each of the printhead integrated circuits having nozzles formed therein for delivering printing fluid onto the surface of the print media (Column 3, Lines 45 – 47), one elongate support member (16 of Figures 3, 7) supporting the at least two printhead integrated circuits, and an electrical connector for connecting electrical signals to the at least two printhead integrated circuits (Column 3, Lines 49-50, 59-65)

- drive electronics incorporating at least one controller arranged to control the printing operation of a selectable number of the at least two printhead integrated circuits via the electrical connector (Column 3, Lines 48-50, 59-65); a mounting element on which the drive electronics are mounted

- a casing removably mounting the at least one printhead module (12) and the mounting element (Column 1, Line 65 – Column 2, Line 5), the least one printhead

module being removably mounted through clamping/clipping of the elongate support member (16) to a support frame of the casing by a clamping /clipping arrangement of the mounting element (Figures 2-3; Column 6, Lines 56-65)

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 2-4, and 6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Silverbrook et al (U.S. Pat. 6,439,908) in view of Silverbrook (U.S. Pat. 6,916,082).

Silverbrook ('908) discloses:

- ***regarding claim 2***, at least one printhead module comprises one or more groups of four printhead integrated circuits (18 of Figure 4)
- ***regarding claim 3***, at least one printhead moduel comprises one or more groups of four printhead integrated circuits (18 of Figure 4)
- ***regarding claim 4***, at least one printhead moduel comprises one or more groups of eight printhead integrated circuits (18 of Figure 4)
- ***regarding claim 6***, at least one printhead module (10 of Figure 2) is formed as a unitary arrangement of the at least two printhead integrated circuits (18 of Figure 4), the support member (16 of Figures 3, 7), the electrical connector (48 of Figure 8), and at least one fluid distribution member (26 of Figure 7) mounting the at

least two printhead integrated circuits to the support member; and the support member has at least one longitudinally extending channel (80 of Figure 7) for carrying the printing fluid for the pirnthead integrated circuits and includes a plurality of apertures (42 of Figure 7) extending through a wall of the support member arranged so as to direct the printing fluid from the at least on channel to associated nozzles in both, or if more than two, all the printhead integrated circuits by way of respective ones of the fluid distribution members (Figure 7; Column 3, Lines 45 – 47)

Silverbrook ('908) does not disclose expressly the following

- ***regarding claim 2***, a single controller is selected for controlling each group of two printhead integrated circuits via the electrical connector
- ***regarding claim 3***, a single controller is selected for controlling each group of four printhead integrated circuits via the electrical connector
- ***regarding claim 4***, a single controller is selected for controlling each group of eight printhead integrated circuits via the electrical connector

Silverbrook ('082) discloses:

- ***regarding claim 2***, a single controller is selected for controlling each group of two printhead integrated circuits via the electrical connector (Column 5, Lines 7 – 18), for the purpose of providing effective control of a number of printhead circuits/chips
- ***regarding claim 3***, a single controller is selected for controlling each group of four printhead integrated circuits via the electrical connector (Column 5, Lines

7 – 18), for the purpose of providing effective control of a number of printhead circuits/chips

- *regarding claim 4*, a single controller is selected for controlling each group of eight printhead integrated circuits via the electrical connector (Column 5, Lines 7 – 18), for the purpose of providing effective control of a number of printhead circuits/chips

At the time the invention was made it would have been obvious to a person of ordinary skill in the art to incorporate the teaching of Silverbrook ('082) into the device of Silverbrook ('908), for the purpose of controlling a number of printhead circuits/chips and replacing any defective modules.

Claim 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over Silverbrook (U.S. Pat. 6,439,908) in view of Silverbrook (U.S. Pat. 6,916,082).

Silverbrook ('908) in view of Silverbrook ('082) discloses the claimed invention except for the following:

- *regarding claim 5*, the at least one printhead module comprises one or more groups of sixteen printhead integrated circuits and a single controller is selected for controlling each group of sixteen printhead integrated circuits via the electrical connector. It would have been obvious to one having ordinary skill in the art at the time the invention was made to implement the at least one printhead module comprises one or more groups of sixteen printhead integrated circuits and a single controller is selected for controlling each group of sixteen printhead integrated circuits via the electrical

connector, since it has been held that mere duplication of the essential working parts of a device involves only routine skill in the art, for the purpose of improving the quality of printing. *St. Regis Paper Co. v. Bemis Co.*, 93 USPQ 8.

At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to incorporate the teaching of at least one printhead module comprises one or more groups of sixteen printhead integrated circuits and a single controller is selected for controlling each group of sixteen printhead integrated circuits via the electrical connector as taught by Silverbrook ('908) in view of Silverbrook ('082), for the purpose of providing effective control of a number of printhead circuits/chips

Response to Arguments

Applicant's arguments filed 7/20/2007 have been fully considered but they are not persuasive. Silverbrook ('908) discloses clipping the printhead modules into the ink reservoir molding (32) which is a portion of the ink reservoir (16) (elongate support structure)

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

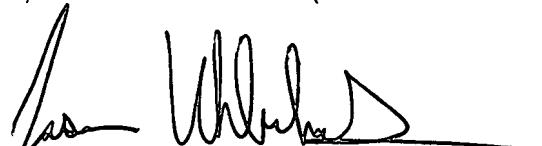
A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the

shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jason Uhlenhake whose telephone number is (571) 272-5916. The examiner can normally be reached on Monday - Friday 8-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stephen Meier can be reached on (571) 272-2149. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.


JSU
September 21, 2007


JULIAN D. HUFFMAN
PRIMARY EXAMINER

9/24/07